MATH 322 Introduction to Analysis II

Meets: Monday, Wednesday and Friday, 3:00pm-3:50pm, Herman Brown Hall 227.

Instructor: Changhui Tan. Office: Herman Brown Hall 328; Office hours: Wednesday and Friday 2:00pm-2:50pm, or by appointment; Email: `ctan@rice.edu`

Teaching Assistant: TBA.

Description: This class is mainly a continuation of MATH 321. It is expected that students will be familiar with basic methods of analysis such as metric spaces, compactness, continuity, sequences and series of functions. The material covered in this course will include differentiation and integration, further topics of sequences and series of functions, power and Fourier series, and theory of functions of several variables. Additional relative topics will be covered if time permits.

Textbook: Walter Rudin, *Principles of Mathematical Analysis: Third Edition.* (ISBN: 978-0070542358)

Webpage: `http://www.math.rice.edu/~ct29/322s16.html`

Homework: Homework will be given and collected weekly and communicated via webpage. The homework is not pledged. You are encouraged to discuss the problems. However each student is responsible for the final preparation of his/her own homework papers. No late homework will be accepted once due time is indicated.

Exams: There will be a midterm exam and a final exam. Both exams will be take-home. You may use the textbook or notes, but no other helps. Exams are under honor code. Be sure and hand in all the work you do on each problem. Good luck!

Grades: Homework 40% , Midterm: 25% , Final: 35%.

Disability Support: If you have a documented disability that will affect your work in this class, please contact me within the *first* week to discuss accommodations. Students with disabilities will also need to contact disability support center.

Disclaimer: The instructor reserves the right to make changes to this syllabus without prior notice. However, once changes are made you will be notified of those changes.